

What is claimed is:

1. A front fork comprising:

an outer tube;

an inner tube inserted expansibly and contractibly into the outer tube;

a double-rod damper disposed inside the outer tube and the inner tube, the double-rod damper including a cylinder, a piston received in the cylinder, a first piston rod and a second piston rod extending respectively from each side of the piston and penetrating through the cylinder, wherein an upper chamber and a lower chamber are defined between the cylinder and the piston, into which that oil is contained; and

a fork-inside oil chamber defined by the outer tube, the inner tube, and the double-rod damper, into which oil and air are contained, the double-rod damper further including:

a piston rod connection mechanism that connects at least one of the first piston rod and the second piston rod to the piston such that the one is displaceable in a direction perpendicular to an axis of the piston.

2. A front fork as set forth in claim 1, wherein the piston rod connection mechanism includes;

a hollow holder that is opened at a lower side thereof and connected to the piston, the hollow holder receiving an end portion of the first piston rod or the second piston rod;

a snap ring disposed in a lower side of an inner surface of the hollow holder;

a stop ring engaged with the end portion of the first piston rod or the second piston rod; and

a spacer through which the stop ring is supported to the snap ring.